

histopathological results. The age and sex distributions were illustrated in table 2. The mean (median, SD) score for children with acute appendicitis and non-acute appendicitis were 4.9

(5, 1.8) and 4.6 (5, 1.7) respectively. No studied variable (of the known signs and symptoms) shows a significant value in the diagnosis of acute appendicitis (Table 3).

**Table 2. The demographic characteristics of patients included in the study**

Variables	Appendicitis patients N = 97	Non Appendicitis patients N = 15
PAS mean $\pm$ S.D (Range)	5 $\pm$ 1.9 (1-9)	4.7 $\pm$ 1.8 (1-7)
Nausea and Vomiting	70 (72%)	11 (73%)
Anorexia	61 (63%)	11 (73%)
Migratory Pain	49 (50.5%)	9 (60%)
RIF tenderness on palpation	59 (61%)	8 (53%)
RIF tenderness on Coughing/hopping/percussion	47 (48%)	5 (33%)
Fever $\geq$ 37.3°C	50 (51%)	7 (47%)
Leukocytosis WBCs. $\geq$ 10000 cell/mm <sup>3</sup>	55 (57%)	9 (60%)

RIF = right iliac fossa

To establish a cutoff point for the diagnosis of acute appendicitis, a score of 4 showed that 76 patients with acute appendicitis undergone appendectomy (78.3%), while 21 patients (21.7%) were sent home (they have histopathologically confirmed acute appendicitis) as an end result. On the other

hand, 11 patients (73.7%) who had negative histopathological results undergone appendectomy (Table 4). These results were obtained when applying ROC curve (Fig. 1) which revealed an area under the curve of 0.542 (95% confidence interval [CI], 0.393-0.691).

**Table 3. The value of variables with regards to the histopathological results**

Variables		Total		Histo-pathologically positive	
		No.	%	No.	%
Age (years)	5 – 9	44	39.3	39	88.6
	$\geq$ 10	68	60.7	56	86.2
Gender	Male	66	58.9	60	90.9
	Female	46	41.1	37	80.4

**Table 4. The PAS according to histopathological findings**

PAS score	Histopathologically positive		Histopathologically negative	
	No	%	No	%
1	2	2.1	1	6.7
2	12	12.4	1	6.7
3	7	7.2	2	13.4
4	15	15.4	2	13.4
5	21	21.6	3	20.0
6	17	17.5	4	26.6
7	16	16.5	2	13.4
8	5	5.2	-	-
9	2	2.1	-	-
Total	97	100%	15	100%

$\chi^2=3.795$ ; d.f.=8; P value=0.875 (Not significant)